

Fig. S-1 FT-IR spectra of (A) 4,4'-dipyridine-silica hybrid monolithic column and (B) chloropropyl silica monolithic column.

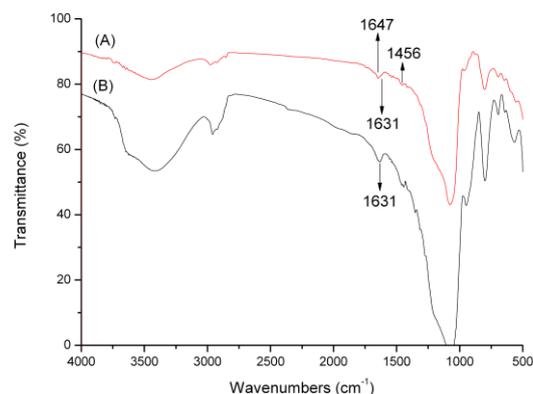


Fig. S-2 XPS spectra of (A) 4,4'-dipyridine-silica hybrid monolithic column and (B) chloropropyl silica monolithic column.

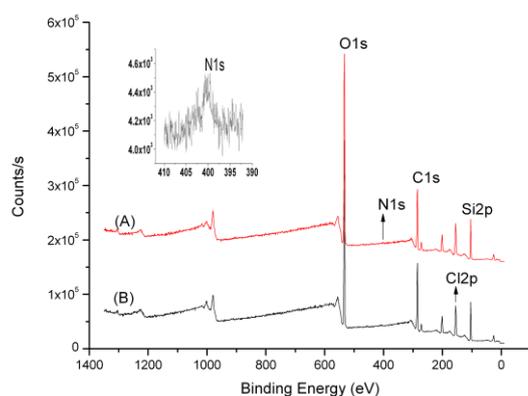


Fig. S-3 Effect of retention factor (k') of the four alkylbenzenes against ACN concentration on 4,4'-dipyridine-silica hybrid monolithic column. Experimental conditions: 5 mM NaH_2PO_4 containing different ACN contents; applied voltage, -20 kV; detection wavelength, 214 nm.

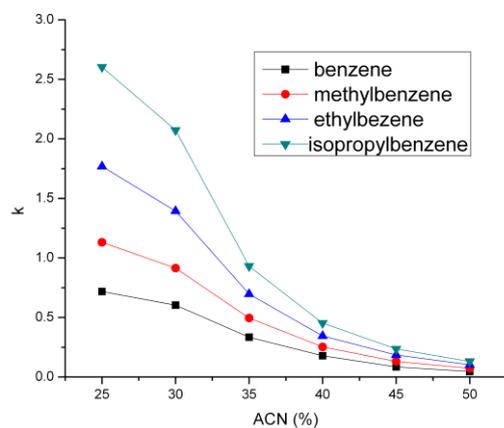


Table S-1 Run-to-run, day-to-day and column-to-column repeatability of migration time for 4,4'-dipyridine-silica hybrid monolithic column by using DMSO (EOF marker) and four aromatic hydrocarbons as test solutes.

Analyte	RSD _R (%) ^{a)}	RSD _D (%) ^{b)}	RSD _C (%) ^{c)}
Benzene	0.61	3.8	3.8
Naphthalene	0.78	3.0	5.1
Fluorene	0.62	2.8	4.2
Anthracene	0.43	2.6	4.7

a) RSD_R: RSD of run-to-run, n=5.

b) RSD_D: RSD of day-to-day, n=3.

c) RSD_C: RSD of column-to-column, n=3.